

METHODS AND APPARATUS FOR SELECTIVE DEMODULATION AND
DECODING OF COMMUNICATIONS SIGNALS

ABSTRACT OF THE DISCLOSURE

5 A spread spectrum signal is processed by correlating the spread spectrum
signal with a spreading sequence at a first plurality of correlation times to produce a
first plurality of time-offset correlations. The first plurality of time-offset correlations
is processed to produce a first symbol representation for a symbol. A first quality is
determined for the first symbol representation. Responsive to the determined first
10 quality, it is determined whether to further process the first symbol representation or
to process a second symbol representation for the symbol generated from the spread
spectrum signal. The first quality may be determined, for example, by decoding the
first symbol representations to generate a decoding metric or error check indicator,
such as a CRC result. The symbol representations may be generated and/or evaluated
15 for quality in a serial fashion or a parallel fashion.